

Title (en)  
Cast exhaust system

Title (de)  
Gegossenes Abgassystem

Title (fr)  
Dispositif d'échappement de gaz obtenu par moulage

Publication  
**EP 1546416 B1 20060315 (EN)**

Application  
**EP 03747746 A 20030918**

Priority  
• BE 0300154 W 20030918  
• US 41466202 P 20021001

Abstract (en)  
[origin: US2004060622A1] The present invention is related to an air melted, substantially graphite and nitrogen-free alloy, aged or not aged by precipitation hardening, specially adapted for gas turbine or internal combustion engine exhaust system parts, comprising a graphite-free microstructure of the following composition:

IPC 8 full level  
**C21D 6/02** (2006.01); **C21D 6/00** (2006.01); **C22C 38/00** (2006.01); **C22C 38/34** (2006.01); **C22C 38/58** (2006.01); **F01N 13/16** (2010.01); **C21D 1/02** (2006.01)

CPC (source: EP KR US)  
**C21D 6/00** (2013.01 - KR); **C21D 6/001** (2013.01 - EP US); **C21D 6/02** (2013.01 - KR); **C22C 38/002** (2013.01 - EP US); **C22C 38/34** (2013.01 - EP KR US); **C22C 38/58** (2013.01 - EP KR US); **C21D 1/02** (2013.01 - EP US); **C21D 6/02** (2013.01 - EP US); **C21D 2211/004** (2013.01 - EP US)

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

DOCDB simple family (publication)  
**US 2004060622 A1 20040401**; AT E320511 T1 20060415; AU 2003266865 A1 20040423; BR 0313376 A 20050621; DE 60304052 D1 20060511; DE 60304052 T2 20061102; EP 1546416 A1 20050629; EP 1546416 B1 20060315; ES 2259143 T3 20060916; JP 2006501365 A 20060112; KR 20050054988 A 20050610; WO 2004031419 A1 20040415

DOCDB simple family (application)  
**US 67442703 A 20031001**; AT 03747746 T 20030918; AU 2003266865 A 20030918; BE 0300154 W 20030918; BR 0313376 A 20030918; DE 60304052 T 20030918; EP 03747746 A 20030918; ES 03747746 T 20030918; JP 2004540389 A 20030918; KR 20057005670 A 20050401